

## CLAIMS

We claim:

1. An electric motor comprising:  
a case;  
a rotor assembly, the rotor assembly residing inside the case,  
the  
rotor supported by the case for both rotary and linear motion.  
  
means for linearly translating said rotary assembly with respect  
to  
the case;  
  
means for rotating the rotary assembly with respect to the case.
2. A method for operating an electric motor comprising:  
energizing a translate coil, the energized coil interacting with a  
rotor assembly to linearly move the rotor assembly; and  
  
energizing a rotation coil, said energized rotation coil interacting  
with the rotor assembly to rotate the rotor assembly.
3. An electric motor comprising:  
a case;  
a rotor assembly, the rotor assembly residing inside the case,  
the  
rotor supported by the case for rotary motion; and  
  
a stator assembly residing inside the case, the stator having  
unequally spaced poles to induce the motor to turn in a predetermined  
direction.

FOOTNOTES

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